# Coding task

Create an AWS Serverless (SAM) Stack with the following resources

1. SQS Queue
2. Lambda Function (triggered by sqs event)
3. Dynamo table

Lambda function to read one message at a time from the queue and write the output of the processing to a dynamo table. Primary partition key of the table should be the “MessageId” of the message from queue.

Message Processing:

Example input

{   
   **"input"**:[   
      "A",  
      "B",  
      "C",  
      "D"  
   ]  
}

And returns all possible combinations of the values in the array. For example A,B,C,D has 16 possible combinations like A,B,C,D, AB,BC,CD,ABC,CDA , ABCD etc

Example response

{   
   **"response"**:[   
      "A",  
      "B",  
      "C",  
      "D",  
      "AB",  
      "AC",  
      "AD",

…  
   ]  
}

* Code can be submitted as a Zip file or on a public github repo.
* Should use Gradle to build
* README file should include the aws CLI commands to deploy the stack to an account.